

Final

FOCUS REPORT
New Chemicals Program

PART I: BACKGROUND

Written By: JKD

FOCUS DATE: 9/28/00

FOCUS CHAIR: J. Alwood

COMPANY: Ausimont USA, Inc.

CASE NUMBER(S): P00-1165 through and

PART II: SAT RESULTS

HEALTH: 1-2 ECOTOX: 2 OCCUPATIONAL EXPOSURE: 1-2 CONSUMER EXPOSURE: 2 ENVIRONMENTAL RELEASES: 2

ADDITIONAL SAT
INFORMATION:

PART III: OTHER FACTORS

a. PRODUCTION VOLUME: [REDACTED] kg/yr

b. PROD VOL OTHER:

c. USE: [REDACTED]

d. REGULATORY HISTORY: [REDACTED]

e. TEST DATA:

f. IMPORTED ☒ MANUFACTURED ☐ BOTH ☐

g. MSDS: ☒

h. CATEGORY: E Polyanionic Polymers/Monomers CATEGORY 2:

PART IV: SUMMARY OF SAT ASSESSMENT

CASE NUMBER: P00-1165

FATE: [REDACTED]

log K_{oc} > 4.5 (P);
log fish BCF = 0.50 (P);
POTW removal = 90% via sorption;
time for complete ultimate aerobic biodegradation > months;
sorption to soils and sediments = very strong;
PBT Potential: P3B1T1

HEALTH: Absorption of LMW components will be poor all routes
based on physical/chemical properties;
submitted test data were:

rat acute oral LD₀ = 2.0 g/kg with no toxic signs;
rat acute dermal LD₀ = 2.0 g/kg with no toxic signs;
moderate to severe, but transient (7 d) eye irritation in
rabbits;
no skin irritation in rabbits;

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Ames test was negative;
E. coli test was negative;
no skin sensitization in guinea pigs (B);
concern for lung toxicity if inhaled due to possible surfactancy
and water-proofing of membranes;
low to moderate concern.

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L
(ppm) are:

fish 96-h LC50 > 100.0 P
daphnid 48-h LC50 > 100.0 P
green algal 96-h EC50 > 100.0 P
fish chronic value > 10.0 P
daphnid ChV > 10.0 P
algal ChV > 10.0 P

Predictions are based on SARs for polyanionic polymers-phosphate
based; SAR chemical class = polymer-nonionic-dibasic phosphate;

effective
concentrations based on 100% active ingredients and mean measured
concentrations; hardness <180.0 mg/L as CaCO₃; and TOC <2.0
mg/L;

low concern

assessment factor = 10.0

concern concentration = 1.0

PART V: SUMMARY OF EXPOSURE/RELEASE

Processing

Inhalation: negligible

Dermal: up to [REDACTED] mg/d

Release to Water: [REDACTED]

Fate: COC 10 ppb Algae, 40 ppb daphnia, 1000 ppb fish.

SWC: [REDACTED] ppb, [REDACTED] days of exceedence for algae, [REDACTED] days of exceedence for daphnia

Drinking Water:

LADD: [REDACTED]

ADD: [REDACTED]

Use

7-14 sites, [REDACTED]

Inhalation: negligible

Dermal: up to [REDACTED] mg/d

Release to Water #1: [REDACTED]

Fate: COC 10 ppb Algae, 40 ppb daphnia, 1000 ppb fish.

SWC: [REDACTED] ppb, [REDACTED] days of exceedence for algae

Drinking Water:

LADD: [REDACTED]

ADD: [REDACTED]

Release to Water #2: [REDACTED]

Fate: COC 10 ppb Algae, 40 ppb daphnia, 1000 ppb fish.

SWC: [REDACTED] ppb, [REDACTED] days of exceedence for algae

Drinking Water:

LADD: [REDACTED]

ADD: [REDACTED]

PART VI: FOCUS DECISION AND RATIONALE

DISPOSITION: Category-5(e) Ban pend.UF Test

RATIONALE: P00-1165 will be regulated with a 5(e) Category (Anionic Polymers) ban pending up-front testing under the risk-based authority for ecotoxicity concerns. There is a potential risk to daphnia from releases during processing of the PMN substance. The COC of 40 ppb was exceeded for [REDACTED] out of [REDACTED]. The company will need to provide information on control of the wastes during processing for the durtm residual. Testing required will be the ecotoxicity base-set under static conditions, nominal concentrations with the base stock solution at pH 7. The PMN will also be subject to a Non-5(e)-SNUR restricting the PMN to no consumer uses and no spray applications. The Agency believes that a consumer use involving spraying applications will pose a risk to human health. Testing required under the SNUR will be an Acute inhalation study.

PART VII: CCD DISPOSITION / DD

CCD:

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